

**Postdoctoral Researcher in Biostatistics and Epidemiology – Center for Tuberculosis  
Institute for Global Health Sciences (IGHS)  
UC San Francisco**

**Duties and Responsibilities:** A postdoctoral position is available in the Institute for Global Health Sciences, University of California at San Francisco (with links to the Department of Epidemiology and Biostatistics).

The postdoc will be mentored by Dr. Patrick Phillips (<https://profiles.ucsf.edu/patrick.phillips>). Dr. Phillips has joint appointments in the Department of Medicine and the Department of Epidemiology and Biostatistics at UCSF and leads the biostatistics core within the UCSF Center for Tuberculosis (situated within IGHS). The objective of Dr. Phillips' research is to design, implement, and optimize clinical trials for new treatments for tuberculosis in order to deliver safer and more efficacious regimens for patients. He is lead statistician for several international tuberculosis trials networks and has been primary senior statistician for a number of high impact phase II and phase III tuberculosis clinical trials. He is lead statistician for the R2D2 diagnostic biomarker network (<https://www.r2d2tbnetwork.org>). Within the UCSF Center for Tuberculosis, he leads a team of masters-level and PhD-level statisticians (<https://tb.ucsf.edu/biostatistics-core>) providing statistical and data management support to many ongoing TB clinical research projects (primarily randomized clinical trials) and working on applied clinical trials methodology.

The Consortium for Applied Microbial Methods (CAMM) is a multi-disciplinary network with the objective of accelerating new treatments for global infectious diseases including collaborators from UCSF, University of Colorado, and Colorado State University. The mission of CAMM is to synthesize the extraordinary and diverse scientific expertise of CAMM investigators to transform the therapeutics development process, accelerating cures for microbial diseases of public health importance. The vision is to achieve a new era in which molecular measures of microbial cellular processes guide therapeutics development, enabling faster, smarter, more accurate selection of improved drugs and vaccines that save human lives.

The focus of the work will be the development and application of methods to evaluate biomarkers for tuberculosis treatment response as pharmacodynamic markers and as surrogate endpoints for use in clinical trials in collaboration with the Consortium for Applied Microbial Methods (<https://microbialmetrics.org/>). The ultimate goal of this work is to seek the qualification of a biomarker of treatment response with the FDA with an appropriate context of use (likely 'pharmacodynamic marker' and/or 'reasonably likely surrogate'). The successful candidate will coordinate the FDA qualification process, in collaboration with Dr. Phillips and other CAMM investigators.

The successful candidate is expected to work closely with Dr. Phillips, and to conduct independent methodological research under his oversight, resulting in the writing of peer-reviewed publications for medical and statistical journals. The successful candidate will also assist Dr. Phillips develop grant applications for new methodological projects. Depending on the candidate's expertise and interests, there will also be the opportunity to participate in other projects, time permitting.

The UCSF Center for Tuberculosis is highly multidisciplinary and collaboration is highly encouraged. The postdoctoral fellow will also have opportunities to collaborate with other scientists in the UCSF School of Medicine, and will be encouraged to seek out such collaborations. The expectation will be that the fellow will apply for a Research Career

Development Award (K) which would put them in a strong position to apply for a faculty appointment within UCSF.

**Required Qualifications:**

- PhD degree in biostatistics or statistics with specific experience in TB-related clinical research.
- Demonstrated ability to work both independently and in teams.
- Excellent methodological training in statistics.
- Experience in methods for biomarker evaluation;
- Experience in design and analysis of randomized clinical trials.
- Excellent programming skills in R, preferably, or Python, or Stata.

**Preferred Qualifications:**

- Excellent written and oral communication skills.

Salary Range Salary is commensurate with qualifications.

Benefits: <https://postdocs.ucsf.edu/hr-benefits-overview>

**To apply, send a cover letter describing your research interests, CV and names of two references to Dr. Patrick Phillips ([Patrick.phillips@ucsf.edu](mailto:Patrick.phillips@ucsf.edu))**

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UCSF Institute for Global Health Sciences (IGHS) is dedicated to improving health and reducing the burden of disease in the world's most vulnerable populations. It integrates UCSF expertise in all of the health, social, and biological sciences, and focuses that expertise on pressing issues in global health. IGHS works with partners in countries throughout the world to achieve these aims. IGHS seeks to improve health worldwide, especially in developing countries, through research that informs policy.

IGHS is committed to ensuring a diverse, equitable and inclusive work environment as we work towards becoming an anti-racist organization. We strongly encourage applicants from diverse backgrounds. Please see our statement on anti-racism here:

<https://globalhealthsciences.ucsf.edu/about-us/diversity-equity-and-inclusion/statement-structural-racism>

The UCSF Department of Epidemiology & Biostatistics - the largest department of epidemiology in the University of California system in terms of full-time primary faculty and the number of affiliated faculty - aims to carry out its educational, scientific, and clinical missions within the highly interdisciplinary culture of UCSF and to take a transdisciplinary approach to education and research.

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